

IN THE CLAIMS

The following listing of claims replaces all prior listings:

1. (Currently Amended) A solid-state image pickup device comprising:
a substrate with an light incident side and a non-light incident side facing
away from said light incident side; and

a photosensor section provided in a- said substrate, said photosensor
section as-a-section including a first photosensor particularly sensitive to light of a
first wavelength and a second photosensor for receiving a light beam with
particularly sensitive to light of a second wavelength which is shorter ~~smaller~~ than
the first wavelength of a light beam received by said first photosensor[[:]],

an electric charge transfer section provided beneath said second photosensor
in said substrate; and

— a read gate provided beneath said first photosensor in said substrate as a gate
for transporting electric charge obtained as a result of a photoelectric conversion
process carried out by said first photosensor to said electric charge transfer
section

wherein,

said first photosensor extends toward said non-light incident side
to an extent greater than does said second photosensor.

2. (Currently Amended) A solid-state image pickup device according to
claim 1, wherein said first photosensor ~~receives-~~ is particularly sensitive to a light
beam of the red or green color and said second photosensor ~~receives-is~~
particularly sensitive a light beam of the blue color.

3. (Currently Amended) A solid-state image pickup device according to claim 1, wherein said first photosensor ~~receives~~ is particularly sensitive to a light beam of the red color and said second photosensor ~~receives~~ is particularly sensitive to a light beam of the green color.

4. (Currently Amended) A solid-state image pickup device according to claim 1, wherein said first photosensor and said second photosensor are provided at adjacent locations relative to said light incident surface but separated away from each other by a potential barrier section.

5. (Withdrawn) A solid-state image pickup device comprising:
a photosensor section provided in a substrate as a section including a first photosensor and a second photosensor for receiving a light beam with a wavelength smaller than the wavelength of a light beam received by said first photosensor;

a first electric-charge transfer section provided beneath said first photosensor in said substrate;

a second electric-charge transfer section provided beneath said second photosensor in said substrate;

a first read gate provided in a side portion of said first photosensor in said substrate as a gate for transporting electric charge obtained as a result of a photoelectric conversion process carried out by said first photosensor to said first electric-charge transfer section;

a second read gate provided in a side portion of said second photosensor in said substrate as a gate for transporting electric charge obtained as a result of a

photoelectric conversion process carried out by said second photosensor to said second electric-charge transfer section; and

a transfer gate provided between said first electric-charge transfer section and said second electric-charge transfer section in said substrate as a gate for transferring electric charge accumulated in said first electric-charge transfer section to said second electric-charge transfer section.

6. (Withdrawn) A solid-state image pickup device according to claim 5, wherein said first photosensor receives a light beam of the red or green color and said second photosensor receives a light beam of the blue color.

7. (Withdrawn) A solid-state image pickup device according to claim 5, wherein said first photosensor receives a light beam of the red color and said second photosensor receives a light beam of the green color.

8. (Withdrawn) A solid-state image pickup device according to claim 5, wherein said first photosensor and said second photosensor are provided at adjacent locations separated away from each other by a potential barrier section.

9. to 18. (Cancelled)

19. (New) A solid-state image pickup device according to claim 1, further comprising:

a read gate within said substrate at a location farther away from said light incident surface than said first photosensor.

20. (New) A solid-state image pickup device according to claim 2, further comprising:

a channel section in said substrate at a location beneath said second photosensor relative to said light incident surface; and

a gate for transporting electric charge obtained as a result of a photoelectric conversion process carried out by said first photosensor to said channel section.

21. (New) A solid-state image pickup device according to claim 1, further comprising:

a read gate provided in said substrate and adjacent said second photosensor relative to said light incident surface.

22. (New) A solid-state image pickup device according to claim 21 further comprising a channel section in said substrate and beneath said second photosensor relative to said light incident surface,

wherein,

said read gate is effective to transport electric charge from said second photosensor to said channel section.

23. (New) A solid-state image pickup device according to claim 1, wherein said photosensor section includes first and second color filters in registry with said first and second photosensors, respectively.

24. (New) A solid-state image pickup device according to claim 1, wherein said first photosensor is larger than said second photosensor along a dimension extending between said light incident and non-light incident sides of said substrate.